

PROJECT DESCRIPTION  
GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF OPTICOM FIRE PRE-EMPTION DETECTOR TO THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 213 (WASHINGTON AVE) AND CAMPUS AVENUE IN KENT COUNTY.

INTERSECTION OPERATION

AN EXISTING CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL REMAIN AT THIS LOCATION. THE INTERSECTION OPERATES IN A FULLY ACTUATED MODE USING 4 NEMA PHASES. THE EASTBOUND AND WESTBOUND CAMPUS AVENUE MOVEMENTS OPERATE AS CONCURRENT PHASING. FIRE PRE-EMPTION PHASING SHALL BE ADDED FOR NORTHBOUND AND SOUTHBOUND MD 213 APPROACHES. A SPECIAL PHASE SHALL CALL NEMA PHASES 2 AND 6 GREEN FOR THE INTERSECTION OF MD 213 AT WASHINGTON COLLEGE PED. CROSSING, UPON ACTUATION OF FIRE PRE-EMPTION AT THIS INTERSECTION. (\* SHA SHOP FORCES SHALL PROVIDE THIS PHASING THRU EXISTING I/C WITH RELAY.)

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. ROBERT L. KIEL, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 810-3240  
MR. WM NORRIS EMBERT, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
PHONE: (410) 810-3270  
MR. BARRY CLOTHIER, DISTRICT UTILITIES ENGINEER  
PHONE: (410) 810-3275  
MR. TERRY O. WRIGHT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 810-3250  
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
	NONE		

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

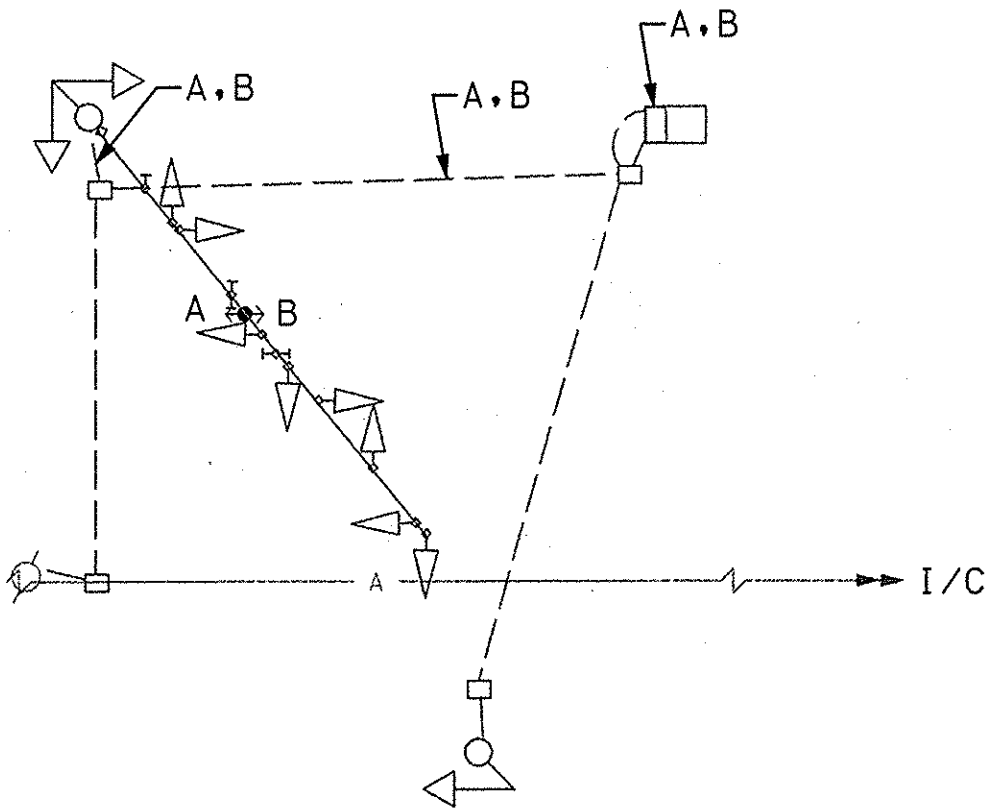
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
8059	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 76	EA	1
8061	OPTICOM NO. 721 DETECTOR EYE	EA	2
8080	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM CABLE	LF	280

C. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM

KEY

A } OPTICOM DETECTOR LEAD-IN CABLE  
B } NO. 4 CONDUCTOR



PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12	13	14
(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)

PHASE 2 AND 6	G	G	G	G	R	R	R	R	WK	WK	WK	WK	DW	DW	
PED CLEARANCE	G	G	G	G	R	R	R	R	FLDW	FLDW	FLDW	FLDW	DW	DW	
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW	
PHASE 4 AND 8	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW	
4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	
PHASE 4 AND 8 ALT	R	R	R	R	G	G	G	G	DW	DW	DW	DW	WK	WK	
PED CLEARANCE	R	R	R	R	G	G	G	G	DW	DW	DW	DW	FLDW	FLDW	
4 AND 8 ALT CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	

FIRE PRE-EMPTION															
PRE-EMPTION PHASE 2 AND 6	G	G	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	
PRE-EMPTION CLEARANCE PHASE 2 AND 6	G	G	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	

TOD No: AT355-17  
SHA: KE388A51/B51

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
**MD 213 AT CAMPUS AVENUE**

CHESTERTOWN, MARYLAND

GENERAL INFORMATION PLAN

SCALE N.T.S. DATE 9/15/05 CONTRACT NO. AT3555185

DESIGNED BY C.FLEMING COUNTY KENT  
DRAWN BY C.FLEMING LOGMILE 104021300.74  
CHECKED BY S.RENZI T.I.M.S. NO. G844  
F.A.P. NO. TOD NO.

DRAWING NO. TS4245A - 2 OF 2 SHEET NO. 6 OF 13

**SABRA, WANG & ASSOCIATES, INC.**  
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